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**Patent** 

## SYSTEM AND METHOD FOR REMOTE DIAGNOSIS OF DISTRIBUTED OBJECTS

## **ABSTRACT**

A system for diagnosing disorders of geographically distributed objects from a remote location. Data for a current condition are compared with predefined data patterns for known disorders to identify a statistically significant match indicating that the monitored object is presently experiencing the corresponding disorder. A critical disorder time is forecasted by determining when a threshold value will be reached using trend analysis of probabilities. A new disorder pattern preceding an observed disorder is added to the knowledge base for future reference. The knowledge base may be used to diagnose one object based on data collected from a similar object in a geographically distinct location. Diverse equipment may be conceptually decomposed into a small set of basic components, and equipment may be diagnosed by analyzing operation of its basic component(s). Informative data analysis procedures may be automatedly selected according to predetermined rules as a function of the monitored equipment's basic components.

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